

CILIGA, Tomislav; BEGO, Uros

Arteries and veins and discharging system of the kidneys
of *Thalarchos maritimus*. Biol glas 15 no.3:133-140 '62.
Biol glas 15 no.3:133-140 '62.

1. Odjel za anatomiju i histologiju s embriologijom
Instituta za morfologiju i fiziologiju Veterinarskog
fakulteta u Zagrebu.

BEGOGUYEN, I.A.

MALAKHOV, G.M., professor; SIDORENKO, A.K., gornyy inzhener; BEGOGUYEN, I.A., dotsent; MUDIK, P.D., gornyy inzhener.

Roller bit boring at the Dzerzhinsk mine. Gor. shur. no. 4:20-21
Ap '57. (MLRA 10:5)

1. Krivorozhskiy gornorudnyy institut.
(Boring machinery)

USSR / Soil Science. Cultivation. Melioration, Erosion. J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95788.

Author : Begostayev, V.

Inst : Not given.

Title : Flush Irrigations on Saline Lands.

Orig Pub: Khlopkovodstvo, 1957, No 10, 19-22.

Abstract: Transpiration of plants is, according to the author, the basic reason which causes the restoration of salinity of irrigated soils in cotton fields. With sustaining of the ground water level at a shallow depth the maximal utilization of it is possible by cotton plants, which gives a possibility of decreasing the irrigation norms. Examples are cited. The tests were conducted on the irrigated lands with equal mineralization of the ground waters (2-8 g/l) in the "Pakhta-Aral" Sovkhoz and in the Bukhara region. -- V. A. Molodtsov.

Card 1/1

L 33932-65 ENT(m)/EWA(h)
ACCESSION NR: AT4049961

Z/2511/61/000/001/0375/0383

AUTHOR: Behounek, F. (Begounek, F.) (Academician CSAV, Professor, Doctor)

29

TITLE: Some problems in protection dosimetry

26

B+!

SOURCE: Prague. Ceske vysoke uceni technicke. Prace. Ser. 6, no. 1, pt. 2, 1961, 375-383

TOPIC TAGS: radiation, radioactivity, radi isotopes, protection dosimetry, dosimetry, nuclear reactor, radioactive aerosol, radioactive decay

ABSTRACT: The article analyzes certain outstanding problems associated with the accurate determination of low-pressure radiation, and is concerned particularly with α and β radiation in the case of internal contamination and with the radioactivity of waters and of the environment. These unsolved and insufficiently studied problems are very important for the protection of the researcher and are closely associated with the peaceful uses of atomic energy. The problems investigated are the correct determination of the radiation dose sustained by the organism in the case of internal contamination (very important in protection dosimetry), the control of radiation in the immediate and more removed environment of a nuclear reactor,

Card 1/2

L 33932-65

ACCESSION NR: AX4049961

and the control of all radiation resulting from radioactive decay. The author and V. Zelenkovs developed a method at the Fakulta technické a jaderné fyziky CVUT (Department of Technical and Nuclear Physics CVUT) in collaboration with the Dosimetry oddelení Ústavu jaderného výzkumu (Dosimetry Section of the Institute of Nuclear Research) for the rapid determination of the efficiency of the normal GM beta tube with the end window for mixtures of radioisotopes and for various amounts of evaporation residues up to 1.2 g. Different types of dosimeters for measuring radiation under various conditions are discussed. The sensitivity of the method is considerable and increases with maximum beta radiation energy: for $E_{\max} \geq 0.7$ MeV, which is the most frequent value, it constitutes 10% for the whole evaporation residue. The same measurement method was used for the detection of radioactive aerosols in the vicinity of the reactor at Rez. Orig. art. has: 6 figures.

ASSOCIATION: Ceskoslovenská vysoká technická škola, Praha (Czech Higher Technical School)

SUBMITTED: 00

RECEIVED: 00

SUB CODES: NP, TH

TO REF 507: 000

OTHER: 000

Cord 2/2

BEGOV, AL.

Bulgaria/Medicine - Thromboses

Jun 52

PA 240718

"A Case of a Wallenberg-Zakharchenko Syndrome, Occurring as a Result of the Affection of the Cerebellar Inferior Posterior Artery," Dr Dim I. Kitov, Dr Al. Begov, Assistants, Neuropsychiatric Clinic, Clinic of Ear, Nose, and Throat Diseases Med Acad "I. P. Pavlov," Plovdiv

"Khirurgiya" Vol 5, No 3, 4, pp 159-167

According to the authors this is the first description of a Wallenberg-Zakharchenko syndrome in the Bulgarian medical literature. The authors

240718

state that only 60 descriptions of this syndrome have so far appeared in the world's medical publications. The condition described in this article deals with a thrombosis of the cerebellar inferior posterior artery causing the syndrome. An almost complete recovery was observed in this case.

240718

EXCERPTA MEDICA Sec.11 Vol.8/11 O.R.L Nov 1955

2118. BEGOV A. "Trauma of the hearing apparatus. Electric trauma of the tympanic membrane KHIRURGIJA (Sofia) 1954, 7/4 (250-253) (Bulgarian text)

The cases are reported of 3 patients who were occupied as welders and sustained burns of the tympanic membrane due to sparks from the apparatus. These lesions were followed by perforation with development of an acute otitis. Measures to prevent the occurrence of such occupational trauma are advocated. Maximov - Sofia

Iz bolnitsata pri medsanchastta pri DMP G, Dimitrov, Gr. Dimitrovo, ushno-nosno-gurlevo otdelenie, Zavezhdashch: Al. Begov.

SHILEV, Petur, doktor, asistent, sus sutrudnichestvogo na ,BEGOV, Alek -
sandur, doktor

Precancerous conditions and tumors of the larynx. Izv.med.inst.,
Sofia 11-12:739-756 1955.

1. Katedra po obshcha patologiya i patologichna anatomia (nav.
red.dots. A. Predanov) pri visshia meditsinski institut I.P.
Pavlov-Plovdiav.

(LARYNX, neoplasms,
precancer & cancer)

BEGOV, A. K. Cand Med Sci -- (diss) "Otitis and nutritional disorder ~~of~~ⁱⁿ childhood." Mos, 1957. 11 pp 20 cm. (2nd Mos State Med Inst im I. V. Stalin). 200 copies. (KL, 23-57, 116)

-118-
//0

BEGOV, A., kandidat na meditsinskite nauki

Frequency of otitis media in infants and results of its therapy.
Khirurgiia, Sofia 10 no.11:1015-1022 1957.

1. Mediko-sanitarna chast - dimitrovo Gl. lekar: B. Pavlov.
(OTITIS MEDIA, in infant and child,
frequency & ther. (Bul))

BEGOV, A.

Diagnosis of latent anthritis (oto-anthritis) in infants. Khirurgiia, Sofia 11 no.4:351-358 1958.

1. Mediko-sanitarna chasa -- Dimitrovo G. lekav: B. Pavlov.
(OTITIS MEDIA, in infant and child,
diag. of latent cases (Bal))

BEGOV, Ya.

Observation of an unknown meteor shower in Vannovskoye. Astron. tsir.
no. 218:15-16 F '61. (MIRA 14:7)

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR.
(Meteors--September)

BEJOVIC, B.

The use of our forests in the past in the production of tar; contribution to the history of forestry of Bosnia and Hercegovina. p. 30.

NARODNA SUKAR. (Društvo sumarskih inženjera i tehnicara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 12, no. 1/3, Jan./Mar. 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

HEGOVIC, B.

Protection of forests against fire under the Turkish rule; a contribution to the history of forestry in Bosnia and Hercegovina. p. 213.

MARODNI SUMAR. (Društvo sumarskih inženjera i tehničara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 12, no. 4/6, Apr./June 1958.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960.

Uncl.

BEGOVIC, K.

"The problem of the electrification of Dalmatia and its solution." p. 52.
(Elektoprivreda, Vol. 6, no. 2, Mar./Apr. 1953, Beograd)

SO: Monthly List of East European Vol, 2, No. 9
Accessions,/Library of Congress, September 1953, Uncl.

REGOVIC, A.

"Calculating the Water Resistance of the Power Plant at Zavrelje." p. 100, Vol. 22,
no. 3/4, 1954. Ljubljana

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

PEGOVIC, K.

PEGOVIC, K. Choice of the number of generator sets for a hydroelectric plant. p. 281.

Vol. 8, No. 5, Sept./Oct. 1955

ELEKTROPRIVREDA

TECHNOLOGY

BELGRADE, YUGOSLAVIA

So: East European Accessions, Vol. 5, No. 5, May 1956

BEGCVIC, K.

Selecting turbines for the Senj hydro-electric plant. p. 25.

ELEKTROPRIVREDA, Beograd, Vol. 9, No. 1 Jan. 1956

SO: EEAL, Vol. 5, No. 7 July 1956

BEGOVIC, K.

Analysis of the economic power of the Rijeka Hydroelectric Plant. P. 30.
ELEKTROTEHNISKI VESTNIK. (Institut za elektrisko gospodarstvo, Fakulteta
za elektrotehniko in Institut za elektrovezje) Ljubljana. Vol. 24, no. 1/3,
Jan./Mar. 1956

So. East European Accessions List Vol. 5, No. 9 September, 1956

BEOOVIC, K.

Jaruga Hydroelectric Plant; the selection and arrangement of machinery and electric equipment. p. 202.
(Elektroprivreda, Vol. 10, no. 4, Apr. 1957.)

SO: Monthly List of East European Accessions (EEL) LC, Vol. 6, no. 7, July 1957. Uncl.

BEGOVIC, K.

"Automation of the aggregate generator-turbine motor pump in the hydroelectric plant in Fuzine."

p. 207 (Energija) Vol. 6, no. 7/8, July/Aug. 1957
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) Vol. 7, no. 4,
April 1958

14(6)

AUTHORS: Reštarović, Stjepan, Engineer and Begović, Krunoslav, Engineer YUG/3-58-12-1/27

TITLE: "Split" Hydropower Plant on the Cetina River (Hidroelektrana Split na Cetini)

PERIODICAL: Elektroprivreda, 1958, Nr 12, pp 565-566

ABSTRACT: This is a brief summary of the following two articles.

ASSOCIATION: Elektroprojekt, Zagreb

Card 1/1

8(5),8(6),14(6)

YUG/3-58-12-3/27

AUTHOR: Begović, Krunoslav, Engineer

TITLE: Mechanical and Electrical Equipment of the "Split" Hydropower Plant (Strojarska i električna oprema hidroelektrane Split)

PERIODICAL: Elektroprivreda, 1958, Nr 12, pp 579-593

ABSTRACT: The equipment of the "Split" hydropower plant is described in the article. Each of the four generating units will be driven by a Francis turbine, designed for a flow of 50 cu m per sec, and a head of 250.4 m net (Figures 7, 8). Each turbine will be supplied with water by a penstock made of "St 35 DR", "St 42 DR", and "Aldur 58" steel, 3.5 m internal diameter, thickness of the wall 10 to 26 mm allowing 1 mm extra for corrosion. The equipment of the spillway at the "Prančevići" dam consists of two fish-bellied tilting gates, each 20 m long and 3.0 m high. The bottom outlet of the dam (Figure 2) is equipped with two tainter gates, 6 x 4 m each; an 8.4 x 5 m sluice weir can be placed before each of them in a case of repair. Both intake flumes (Figure 3) are equipped with racks, each 13 m broad and 11 m high, with a rack rake which cleans both intakes; each intake also has a sluice gate, located in

Card 1/3

YUG/3-58-12-3/27

Mechanical and Electrical Equipment of the "Split" Hydropower Plant

a shaft, which serves for inspection of the tunnel. Galleries which connect the tunnels with the common surgetanks are also equipped with sluice gates, 3.7 x 4.2 m, in order to separate one tunnel from another when inspection is necessary but continuous operation of the plant is required. In the valve-house (Figure 4) each penstock is equipped with a butterfly valve 3.5 m in diameter and at the end of each penstock, before the turbine, a ball safety valve is installed (Figure 10). Two 1,150-kw auxiliary generating units are driven by single-nozzle Pelton wheels and cover the internal needs of the "Split" hydropower plant. The underground transformer station (Figure 9) consists of 7 single-phase 16/121/ $\sqrt{3}$ -kv, 40-Mva power transformers, and seven 16/242/ $\sqrt{3}$ -kv, 40-Mva power transformers. There are also 4 single-phase open-yard 231/ $\sqrt{3}$ /115/ $\sqrt{3}$ /10.5-kv, 33.3-Mva transformers. The power transformers are connected by oil-filled cables to the switchyard. The outdoor switchyard, about 105 m broad, and 200 m long (Figures 11, 12, 13), is designed for 220 and 110-kv transmission and has standard equipment. The system for linkage with the Yugoslavia's high-voltage net and the plant's international

Card 2/3

YUG/3-58-12-3/27

Mechanical and Electrical Equipment of the "Split" Hydropower Plant

connection scheme are illustrated (Figures 5, 6). The plant is also equipped with direct-control switchboards, remote control switchboards from outdoor main control station, as well as with various electrical protective devices and communication systems. Grounding is common for all voltages. Cranes are installed in all rooms where assembly and repair of equipment is carried out. The total cost of the equipment installed in the first stage of construction amounts to 5,802 million dinars. A specification of the costs for the various categories of equipment is given in Table 2. There are 10 diagrams, 2 tables, 2 maps and 1 schematic diagram.

ASSOCIATION: Elektroprojekt, Zagreb

Card 3/3

BEGOVIC, Krunoslav, ing.

Present state and modern trends in the construction of pantograph
disconnectors. Energija Hrv 11 no.5/6:168-172 '62.

1. Elektroprojekt (Zagreb, Gunduliceva 32).

BEGOVIC, Krunoslav, inz.;

The 110 and 220 kv. switchgears of the Split Hydroelectric
Power Plant. Elektroprivreda 15 no. 6/7:296-305 '62.

1. Elektroprojekt, Zagreb.

BEGOVIĆ, Krunoslav, dipl inz. (Zagreb)

The TIS ABBAI Hydroelectric Power Plant in Ethiopia. Energija Hrv
12 no.11/12:346-350 '63.

BEGOVIC, Miroslav

Application of artificial lighting in galleries. Ljetopis JAZU
63:488-501 '56(publ.'59).

BEGOVIC, Safet

"Sedimentation Rate of Erythrocytes in Horse by Use of Westergreen's Method." Safet Begovic - superior ass. of Inst. for Pathological Physiology of Vet. Faculty Univ. of Sarajevo. Ufells Turancic - vet. Major of Yugo People's Army, Sarajevo.

SOURCE: Vet., BROJ 3-4, p. 301, 1952

DEGOVIC, S.

YUGO

✓ Analysis of cations and amino acids in extracellular muscle fluid from the frog. S. Degovic and P. Sitera. *Acta Med. Yugoslavica* 6, 153-157 (1962). *Ann. Agr.* 26, 2199 (1962).
The extracellular fluid from muscles of the frog is found to contain a large excess of Na, K, and Ca as well as free amino acids. It is suggested that the extracellular fluid represents a plasma ultrafiltrate.
A. M. M.

BEGOVIC, Safet Dr.

Ass. Prof. of Pathologic Physiology at Vet. Faculty, sarajevo

Ivan Sabjan - ass. at Vet. Faculty, U. of Sarajevo

The Influence of Therapeutical Doses of CEVOMOR on the Length of Prothrombin
Reaction and Reaction of Erythrocyte Sedimentation in Horses

Source: Vet Svezak 2, p.340, 1953

BEGOVIC, Safet

"Changes of the Potassium Concentration in the Body Fluids under the Influence of Prostigmine & ACH ass. - prof. Vet. Fac., U. of Sarajevo.

Vet. 1 : 97-126, 1954

BE 001/9,5.

YUGO J

GERM

Course type action of acetylcholine in the genesis of paralysis postpartum of cows. S. Ragovic, A. Salijan, and P. Stern (Univ. Sarajevo, Yugoslavia). *Acta. veterinaria* 42, 21(1986).—From 3 to 10 mg/kg. of acetylcholine was given intravenously to 19 cows and calves, atropinized to prevent the muscarine effect of the acetylcholine. All showed typical postpartal paralysis at once, lasting for 30 to 45 min. Doses of 50–150 cc. of 0.5% KCl caused the paralysis to disappear. Conclusion: postpartal paralysis is caused by resorption of considerable amts. of acetylcholine from the milk, possibly from the uterus. It has a curative effect, especially since the cow serum has no cholinesterase. B. J. C. van der Hoeven

BEGOVIC, S.

AUST.

✓ Determination of acetylcholine in mare milk and its influence on peristalsis. S. Begovic and E. Magliaric (Univ. Sarajevo) *Wien. med. Wochenschr.* 42: 68, 73 (1955) -

By using the everted ileal pouch and the isolated frog heart, it could be detd. that 1 cc. fresh mare milk contains 1 μ g. acetylcholine (ACh), which is 10 times more than found in cow milk. Horses possess a very active cholinesterase and therefore are not as susceptible to the toxic effects of ACh as cows. In dried cow milk, however, the ACh content is the same as in fresh mare milk. The different amt. of ACh caused in the milk prepn. can be shown when injected into the small intestine of dogs, according to the method of Straub and Triandl (cf. *C.A.B.* 32, 5912), by producing different degrees of peristalsis. Rudolph Seiden

DEG BYR S S

Acetylcholine in cow milk. S. Rogovik and E. Marjale
(Fac. vet. med., Sarajevo, Yugoslavia). *How. on. Schmiedz-
bergs Arch. exp. Pathol. Pharmacol.* 224, 44-7 (1955).
One cc. fresh milk contains 0.1 μ acetylcholine; 1 g. of
dried whole milk contains 1 μ acetylcholine. A. B. M.

BEOVIC, S.; MISIRLIJA, A.; STERN, P.

Effect of allergic reaction and histamine on coronary arteries.
Acta med. iugosl. 10 no.1:37-44 1956.

1. Institut za patoloski fiziologiju Veterinarskog fakulteta i
Institut za farmakologiju Medicinskog fakulteta Univerziteta u
Sarajevu.

(HEART, blood supply

eff. of allergic reaction & released histamine on pressure
& circulation rate of coronary arteries in dogs (Ser))

(HISTAMINE, eff.

exper. allergic reaction on pressure & circulation rate of
coronary arteries in dogs (Ser))

(ALLERGY, exper.

histamine release, eff. on pressure & circulation rate of
coronary arteries in dogs (Ser))

BEGOVIC, S. YUGOSLAVIA/Human and Animal Physiology. Digestion.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36596.

Author : Bogovic, S., Maglajic, E.

Inst :

Title : The Effect of Dry Milk on the Motility of in Situ Isolated
Intestine in Dog. The Purgative Effects of Milk.

Orig Pub: Veterinaria, 1957, 6, No 1, 105-113.

Abstract: A 10% emulsion of dry milk perfused slowly through
an isolated, in situ, segment of the ileum of a dog,
under anesthesia, increased peristaltic and pendulum-
like motion of the isolated segment of the bowel.
The effect of milk on the motility of an isolated
bowel segment is similar to that of an aq. sol. of
acetylcholine (I) of the same concentration as it

Card : 1/2

YUGOSLAVIA/Human and Animal Physiology. Digestion.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36596.

exists in the milk emulsion. Direct introduction of large doses of I in aq. sol. in isolated segments of the bowel not only increases peristalsis, through local action, but occasionally produced general convulsions; and for short periods of time brought the animals out of the narcotic stage. The laxative effect of milk depends upon its concentration of I, which increases intestinal motility.

Card : 2/2

Pathology

YUGOSLAVIA

BEGOVIC, S.; College of Veterinary Medicine (Veterinarski fakultet,) Sarajevo.

"Biochemical Bases of the Process of Inflammation and Effect on the Blood Cell Pattern. Current Views of the Causes and Mechanism of the Process of Inflammation."

Belgrade, Veterinarski Glasnik, Vol 20, No 7, 1966; pp 531-540.

Abstract [English summary modified]: Review of various theories and schools about the role and function of inflammatory process; participation of adrenal cortex and medulla; formed blood elements; vascular permeability changes; proteolysis and effect of released intracellular elements; neuroendocrines. Six structural diagrams of steroids; 5 Western and 1 Yugoslav reference; manuscript received 25 May 66.

BEGOVIC, V.

Yugoslavia (430)

History and Description - Serials

Yugoslav economic delegation in northern countries.
p. 15. Resistance movements in the Satellite
countries, Bulgaria, Rumania, and Hungary. p. 17.
REVIEW OF INTERNATIONAL AFFAIRS. (Federation of
Yugoslav Journalists) Beograd. (Fortnightly

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED

"Card 1 of 2"

BEGOVIC, V.

Yugoslavia (430)

Journal on international problems. Published also in Serbo-Croatian as Medunarodna Politika, and in French as Revue de la Politique Mondiale, Vol. 3, no. 15, August 1, 1952.

East European Accessions List, Library of Congress, Vol. 1, no. 13, November 1952.

UNCLASSIFIED

"Card 2 of 2"

BEGOVIC, Vojin

Nineteenth Convention of the Association of Geodetic
Engineers and Surveyors of Montenegro. Geod list 17
no.10/12:398-399 O-D'63.

DEFOV II		PROCESSING AND PROPERTIES INDEX	
ca		18	
Apparatus for making lampblack from petroleum hydrocarbons. I. I. Dronov. Rum. 14,304, Feb. 18, 1937. A coil consisting of a number of tanks is immersed in a furnace. Light petroleum fractions are admitted into the upper end of the coil after passing a hydraulic seal. The oil, being gradually heated during its downward movement, is partially converted into vapor, which is discharged through perforations provided in the lower pipe. A liquid seal outside of the furnace connected to one of the pipe tanks in the furnace serves to discharge the exorates of oil which was not evaporated. The oil pressure is regulated by a valve attached to a manifold connected in front of the liquid seal for hot oil. The vapors are burned to produce lampblack.			
ATG-514 METALLURGICAL LITERATURE CLASSIFICATION			
FROM SYNDICATE			

BEGROV, P.V.

Working part for rotary percussive hole boring. Biul.TSIICHM
no.9:50 '60. (MIRA 15:4)
(Boring machinery—Patent)

BEGROV, V.V.; STRIZHEVSKIY, I.I.

Effect of vapors of carbon tetrachloride and other halo
derivatives on the explosive capacity of acetylene.
Zhur.prikl.khim. 38 no.9:2038-2043 S '65.

(MIRA 18:11)

L 10989-06 EWT(M)/ENP(1) RPL. MM/JM/RM	
ACC NR: AP6000684	SOURCE CODE: UR/0080/65/038/009/2038/2043 ⁵⁷ 49 23
AUTHOR: <u>Begrov, V. V.; Strizhevskiy, I. I.</u>	
ORG: None	
TITLE: Effect of the vapors of <u>carbon tetrachloride</u> ⁷ and other halogen derivatives on the explosiveness of <u>acetylene</u>	
SOURCE: Zhurnal prikladnoy khimii, v. 38, no. ^{11, 44, 55} 9, 1965, 2038-2043	
TOPIC TAGS: acetylene, thermal decomposition, carbon tetrachloride, chloroform, chloride, bromide	
ABSTRACT: The article gives the results of experiments on the effect of the vapors of carbon tetrachloride, chloroform, methyl chloride, dichloroethane, ethyl bromide, and acetone on the limiting pressure for the explosive decomposition of acetylene and acetylene-hydrogen mixtures. The explosion was initiated at the bottom of a bomb by the fusion of a Nichrome wire with a diameter of 0.15 mm and 10 mm long with a direct current of 127 volts. The explosion was recorded with Chromel-Kopel thermocouples and a PP potentiometer. The acetylene and hydrogen were supplied from cylinders. The content of air in the acetylene was from 0.5 to 1.5%. The acetylene was purified of acetone vapors by condensa-	
Card 1/2	UDC: 662.215.2+547.312

L 10989-66

ACC NR: AP6000684

tion at -35° and absorption of the acetone on activated birch charcoal. Vapors of various halogen compounds were mixed with acetylene or an acetylene-hydrogen mixture directly in the bomb. Ignition was carried out after 30 minutes. The limiting pressure was determined as the average of the pressures at which explosive decomposition did or did not occur in the mixture. Experimental results are shown in a table. Under the experimental conditions, the limiting explosive pressure of pure acetylene was 1.3-1.4 atm. It was first established that vapors of carbon tetrachloride and chloroform lower the limiting pressure of the decomposition of acetylene. With a content of 8.8% of carbon tetrachloride vapor in a mixture of $C_2H_2-CCl_4$, the limiting explosive pressure of the mixture was 0.87 ± 0.05 atm while, at the same content of $CHCl_3$ vapors, the limiting explosive pressure of the $C_2H_2-CHCl_3$ mixture was 0.04 ± 0.05 . Hydrogen chloride is contained in the condensation products of the explosive products of $C_2H_2-CCl_4$, $C_2H_2-CHCl_3$, and $C_2H_2-CH_2Cl_2$ mixtures. The specific effect of carbon tetrachloride and chloroform on the explosive decomposition of acetylene is probably due to the formation of the active CCl_3 radical in the flame front. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 07/ SUBM DATE: 23 Jan64/ ORIG REF: 007/ OTH REF: 002

Cord 2/2

BEGUCHEV, A. P.

25877. BEGUCHEV, A. P. Ocherednye voprssy vyrashchivaniya telyat.
Sov. zootekhnika, 1949, No. 4, S. 31-43.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

38239 BEGUCHEV, A. P. AND YURNALIA^T. A..P.

Zadachi massovogo opytничestva po razdsso korov. Sov. zootekhniya, 1949,
No 8, s. 40-47

BEQUICH, A.P.

"Feeding and care of cattle during the pasture period"
Moskva, Gos. izd-vo sel'khoz lit-ry, 1951.

4688. Beguchev A. P. vysokoproduktivnoye zhivotnovodstvo kolkhoza
imeni stalina (Iukhovits. rayon mosk. obl.) per. so 2 go lzd. tashkent,
gosizdat uzssr, 1954 120 s. s ill 20 sm. 10,000 edz ir. 60k. na. obl.
avt ne ukazany-na usbek yaz-(54-57027) 636.5.083 st (47)(092)

BEGUCHEV, A. P.

, ed.

Krupnyy rogatyy skot (Cattle) 3-e, perer, izd. (Ed. by)
Ye. A. Novikov i A.P. Beguchev. Moskva, Sel'khozgiz, 1954.

N/5
727.1
.N9
1954

335 p. illus., diagrs., tables (Trakhtetniye kolkhozyye
agrozootekhnicheskiye kuray. Vtoroy god obucheniya)

BEGUCHEV Aleksey Petrovich; KALASHNIKOVA, V.S., red.; ZUBRILINA, Z.P., tekhn.
red.

[How to increase milk production] Kak uvelichit' proizvodstvo moloка.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 75 p. (MIRA 11:7)
(Dairying)

BE GUCHEV, A.P.

NOVIKOV, Ye.A., kand.sel'skokhozyaystvennykh nauk, red.; BEGUCHEV, A.P.,
kand.sel'skokhozyaystvennykh nauk, red.; TETIUREVA, I.V., red.;
FEDOTOVA, A.F., tekhn.red.

[Cattle] Krupnyi rogiatyi skot. Izd.5-oe. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1957. 342 p. (Agrosootekhnicheskie kursy. 2.g.
obucheniia) (MIRA 10:12)

(Cattle)

BEGUCHEV, A.; ZHIRNOV, I.

Ways to develop stockbreeding. Vop. ekon. no.3:128-135 Mr '60.
(MIRA 13:2)
(Khomutovka District--Stock and stockbreeding)

MOVSISYANTS, A.P. Prinimali uchastiye: BEGUCHEV, A.P.; IVANOV, A.D.;
LARGAUKHOVA, Ye.I.; NIKOLAYEVSKAYA, O.N.; NOSKOV, B.G.; PUTILOV,
A.K.; AVARSKIY, A.I., red.; PEVZNER, V.I., tekhn.red.; TRUKHINA,
O.N., tekhn.red.

[Brief manual on cattle raising] Kratkii spravochnik po krupnomu
rogatomu skotu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 327 p.
(MIRA 13:12)

(Cattle)

HEGUCHEV, A.P., kand. sel'khoz. nauk; TYUPICH, M.M., kand. biol.
nauk; KONDIYEV, V.Ye., kand. sel'khoz. nauk; AZAROV, G.S.;
FEDOTOV, V.G., red.; SAYTANIDI, L.D., tekhn. red.

[Modern methods in reproducing cattle stock] Peredovoi opyt
vosproizvodstva stada krupnogo rogatogo skota. Moskva, Izd-
vo M-va sel'.khoz.RSFSR, 1963. 114 p. (MIRA 16:6)
(Cattle breeding)

BE GUCHEV, O.P.

USSR/Electronics - Electron Optics

H-3

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 7089

Author : Bohuchov, O.F.

Title : Spreading of Space Charge Clusters

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 7, 1483-1486

Abstract : A theoretical investigation of the spreading of relativistic and nonrelativistic clusters of uncompensated space charge. The charge conservation law is used in the investigation. A rigorous solution is given for the one-dimensional case of an initially rectangular cluster for non-intersecting particle trajectories. The grouping of nonrelativistic electrons in a sinusoidally-velocity-modulated stream is considered. The maximum value of the charge density in such a stream is determined, as is the time to reach the maximum condensation of the particles in the cluster.

Cases of spreading of nonrelativistic spherically-symmetrical and axially-symmetrical clusters are considered. The effect of thermal velocities of nonrelativistic particles on the spreading of the clusters is determined for the case of

Card : 1/2

RADOV, A.S.; SHUBIN, G.A.; TOPILIN, Ye.K.; BEGUCHEV, P.P.; GUDKOV, A.N.;
VEDENYAPIN, G.Ye.; SHUBIN, V.F.; RASKHODOV, G.F.; KAZAKOVICH, L.I.;
IVASHCHENKO, P.S.; KONUROV, S.G.; AGAPOV, P.F.; IVANOV, A.F.

Grigori Mikhailovich Tumin; 1876-1957. Pochvovedenie no.11:
103 M '58. (MIRA 11:12)
(Tumin, Grigori Mikhailovich, 1876-1957)

BEGUCHEV, P.P. and LEONT'YEVA, I.P.

"Radical Improvement of Natural Grasslands on Solonetz Complexes
of the Lower Volga Desert Steppe."

Stalingrad Agricultural Institute for Beguchev, P.P.
report to be presented at the 8th Intl Grassland Congress, Reading, England, 11-21 Jul '60

IVANOV, Anatoliy Fedorovich, dots., kand. sel'khoz. nauk;
BEGUCHEV, P.P., red.; BUKYANOV, N.S., tekhn. red.

[Utilization of pastures in the Inner Mongolian Autonomous Region of the Chinese People's Republic; exchange of experience in agriculture with the Chinese People's Republic] Is-pol'zovanie pastbishch v avtonomnom raione Vnutrennei Mongolii Kitaiskoi Narodnoi Respubliki; obmen opytom sel'skogo kho-ziaistva s Kitaiskoi Narodnoi Respublikoi. Stalingrad, "Knizhnoe izd-vo," 1960. 20 p. (MIRA 17:3)

1. Stalingradskiy sel'skokhozyaystvennyy institut (for Ivanov).

BEGULA, M.

"Notes on the appearance and eradication of cockchafers in the Zahorie area in 1955."

p: 105 (Les) Vol. 12, no. 3, Mar. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BEGUGLYI, P. A.

Galkin, A. A., Lazarev, B. G. and Beguglyi, P. A. Certain peculiarities of the transition into the superconducting state. II. Page 987.

The Physico-Technical Inst.
Acad. of Sci. Ukr. SSR.
March 30, 1950.

SO: Journal of Experimental and Theoretical Physics, Vol. 20, No. 11, November, 1950.

2. UN, A. D.

3. UN, A. D.--"Construction of Tunnels in Unstable Ground with Increased Hydrostatic Pressure without the Use of Compressed Air."
(Dissertations For Degrees In Science and Engineering
Defended at USSR Higher Educational Institutions) (29)
Min Railways USSR, Tbilisi Inst of Engineers of Railroad
Transport imeni V. I. Lenin, Tbilisi, 1954

SO: Knizhnaya Letopis' No 29, 16 July 1955

* For the Degree of Candidate in Technical Sciences

PRONINA, R.F., prepodavatel'; BEGUN, A.I., prepodavatel'; VOLKOVA, N.S.,
prepodavatel'; MOSHCHUK, Ye.I., prepodavatel'; FUKS, Ye.A.,
prepodavatel'; Kholcheva, A.S., prepodavatel'; CHERNUKHIN, A.Ye.,
red.; ZHAVORONKOV, I.I., red.; KHITROV, P.A., tekhn.red.

[English-Russian railroad dictionary] Anglo-russkii zhelezno-
doroznyi slovar'. Pod red. A.E. Chernukhina. Moskva, Gos. transp.
zhelezn. dor. izd-vo, 1958. 662 p. (MIRA 12:2)

1. Kafedra inostrannykh yazykov Moskovskogo instituta inzhenerov zhelezno-
dorozhnogo transporta (for Pronina, Begun, Volkova, Moshchuk, Fuchs,
Kholcheva).

(English language--Dictionaries--Russian)
(Railroads--Dictionaries)

SOV/137-57-10-19268

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 118 (USSR)

AUTHORS: Begun, B.Ye., Kvasman, M.G., Yudin, Ye.I.

TITLE: Experiences in the Making of Cast-iron Crankshafts for Main-line Diesel Locomotives (Opyt izgotovleniya litykh chugunnykh kolenchatykh valov dlya magistral'nykh teplovozov)

PERIODICAL: Tekhnologich. transp. mashinostroyeniya, 1957, Nr 2, pp 12-18

ABSTRACT: The casting of crankshafts for the 2000-hp D-100 Diesel has been perfected at the Khar'kov Transportation Equipment Plant. Shafts weighing 1740 and 1490 kg are cast from pig iron of the following % contents: C 2.2-2.4 and alloyed Mo 1, Cr 0.6 and Ni 1. On rupture, $\sigma_b(\text{tension}) > 35 \text{ kg/mm}^2$ and $\sigma_b(\text{bending}) > 70 \text{ kg/mm}^2$. Utilization of metal when the blank is cast is close to 47%, while only 14% of the metal can be used in forging. Horizontal pouring is recommended in single-unit production, as inclined and vertical pouring require the construction of pouring fixtures, although they do increase the yield by 50% relative to horizontal and reduce machining to a minimum. The optimum pouring temperature is 1360-1370°C. A thermit

Card 1/2

SOV/137-57-10-19268

Experiences in the Making of Cast-iron Crankshafts (cont.)

mixture is poured over the risers. The blanks are heat-treated after roughing to relieve stress. Gamma-radiation is used to inspect for internal faults.
E.Sh.

Card 2/2

S/128/60/000/010/007/016/XX
A033/A133

AUTHORS: Kvasman, M. G.; Tunik, A. A., and Begun, B. Ye.

TITLE: Casting large diesel engine crankshafts

PERIODICAL: Liteynoye proizvodstvo, no. 10, 1960, 13 - 15

TEXT: The authors report on the manufacture of cast iron crankshafts for the Д100 (D 100) diesel locomotive engine, which has 10 connecting rod journals and 12 crank journals. All journals are hollow and the crankshafts are fabricated according to a technology described by B. Ye. Begun et al. [Ref. 1: "Tekhnologiya transportnogo mashinostroyeniya", no. 2, 1957], M. G. Kvasman et al. [Ref. 2: "Liteynoye proizvodstvo, no. 6, 1959"] and M. R. Rotenberg, V. I. Soldatenko. [Ref. 3: "Liteynoye proizvodstvo, no. 6, 1959"]. To eliminate some essential technological deficiencies of the cast crankshafts, of which the most important one is the origination of black spots as a result of non-metallic sulfide inclusions, investigations were carried out in which A. A. Novik, L. D. Dobrynina, S. F. Krivtsov and V. I. Korsakov participated. To increase the productivity in big-lot production two crankshafts were cast in one flask of 5,360 x 1,100 x 400 mm, instead of

Card 1/3

Casting large diesel engine crankshafts

S/128/60/000/010/007/016/XX
A033/A133

one crankshaft in 5,360 x 900 x 400 mm flasks. The molds were rammed with the 296M sandslinger. These measures resulted in a cut in labor consumption of molding and assembling operations of 25% and a saving of 1.5 m³ molding sand per crankshaft. In order to eliminate the cutting off of shrinkage heads narrowed diaphragms and easily removable shrinkage heads were used. The diaphragms were roasted in a reducing atmosphere in metal containers. The cast iron is smelted in a 5-ton acid electric furnace with a solid charge consisting of 30 - 50% П8К (РVK) forge iron, 20 - 30% LK3 and LK4 - ГОСТ (GOST) 4832-58 foundry iron, 15 - 20% carbon steel scrap and up to 40% shaft waste. The mechanical properties of the crankshafts should be as follows: $\sigma_{\text{end}} \geq 45 \text{ kg/mm}^2$, $\delta \geq 1.0\%$, and HB in the range of 207 - 302. Up to 30% ferrite and 8% cementite are allowed in the microstructure. Without any special heat treatment and after the treatment with magnesium and modification with 75% ferro-silicon the cast iron should contain: 2.8 - 3.2% C; 2.2 - 2.6% Si; 5.3 - 5.7% (C+Si); 0.5 - 0.9% Mn; $\leq 0.10\%$ P; $\leq 0.025\%$ S; $\leq 0.25\%$ O₂; $\leq 0.4\%$ N₂ and 0.025 - 0.1% Mg. An increase in the pouring temperature to 1,370°C and higher made the non-metallic inclusions, causing the origination of black spots, float up to and concentrate near

Card 2/3

Casting large diesel engine crankshafts

S/128/60/000/010/007/016/XX
A033/A133

the surface, where they could be eliminated during the roughing operation. Magnesium is added in quantities of 0.55% (28 kg per 5 tons of cast iron), while the cast iron is modified with 1.1 - 1.3% (of the weight of the liquid metal) of 75% ferro-silicon. The authors comment upon the optimum modification technology and point out that the results of the mechanical processing and investigations of mechanical properties have shown that the addition of gray cast iron and the recasting of the cast iron caused an increased origination of black spots. When the cast iron was treated with oryolite (of the grades K1 and K2 TsMTU 952-41) which was added together with the magnesium, the black spots were eliminated and a stable level of mechanical properties was obtained. There are 8 figures and 6 Soviet-bloc references.



Card 3/3

KVASHMAN, M.G.; TUNIK, A.A.; BEGUN, B.Ye.

Casting large diesel engines crankshafts. Lit. proizv. no.10:13-15
O '60. (MIRA 13:10)

(Crank and crankshafts)

(Founding)

TUNIK, A.A.; BEGUN, B.Ye.; DOBRYNINA, L.D.; SHCHERBINA, V.P.; LYUBARSKIY, I.M.

Kinetics of the crystallization and cooling of a large crankshaft
casting. Lit. proizv. no.6:40-41 Je '62. (MIRA 15:6)
(Iron founding) (Crank and crankshafts)

BEGUN, I.

BORISOV, N., ~~proizvoditel'~~ ~~montazhnik~~; BEGUN, I., brigadir montazhnikov.

We construct large-panel apartment houses. Stroitel' no.6:6
Je '57. (MLRA 10:9)

(Apartment houses) (Concrete slabs)

BEQUY, I.N., glavnyy inzhener.

It is different in the plant now. Put' 1 put. khes. no. 2:30-32 P '57.
(MIRA 10:4)

1. ~~Tikharevskiy~~ shchalepnyy saved.
(Railroads--Ties) (Wood--Preservation)

HEGUN, I.N.

Using pretreatment in tie impregnation. Put' i put.khoz. 4 no.9:37-
38 S '60. (MIRA 13:9)

1. Glavnyy inzhener zavoda, stantsiya Tikhoretskaya, Severo-Kavkazskoy
dorogi.
(Wood--Preservation) (Railroads--Ties)

STROKOPYTOV, V.I., kandidat tekhnicheskikh nauk.

"Mechanization of gas welding and cutting." S.V. Begun, Reviewed
by V.I. Strekopytov. Vest. mash. 27 no. 12: 95-96 D 47. (MLWA 9:4)
(Begun, S.V.) (Gas welding and cutting)

22-386. SURFACE HARDENING WITH THE OXY-ACETYLENE TORCH.
S. V. Bagun. Arkosennas Dale (Welding), no. 3, 1947, p. 27-28.
(In Russian.)
Apparatus and techniques used in the U.S.S.R.

14

5

Melting Out and Welding Up of Flaws in a Steel Casting with an Arc. S. V. Begun. (Avtogennoe Uelo, 1948, No. 11, pp. 25-26). [In Russian]. In the method described, inclusions are melted out from steel castings using an A. C. arc and a heavily coated electrode 4-8 mm. thick, the amperage used being 55 to 65 times the electrode diameter in millimetres. After mechanical cleaning, the cavities are welded up using the same type of electrode. The success of this technique is exemplified by the descaling of a steel casting of the composition carbon 0.24%, manganese 0.84%, silicon 0.23%, sulphur 0.043%, phosphorus 0.035%, having a surface of pearlite and ferrite of Widmanstatten structure over partially recrystallized pearlite and ferrite. The deposited metal was ferrite with a small proportion of pearlite in a columnar dendritic structure, whilst the zone directly under the seam consisted of sorbitic pearlite and ferrite.—S. K.

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

BEGUN, S. V.

Author: Begun, S. V.

Title: Cutting metal with oxygen; from various tests conducted in the Ural plants.
(Kislородnaia rezka metallov.) 151p.

City: Moscow

Publisher:

~~Publication:~~ State Printing House of Scientific and Technical Literature

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 1, Page 17

BEGUN, S. V.

USSR/Engineering Welding Industrial Technology	Jul 49
PA 53/49T49 "Problems of New Technology," S. V. Begun, Engr., 4 p "Autogen Delo" No 7 VILAVTOGEN (All-Union Sci Res Inst for Autogenous Welding) and GLAVKISLOROD (Main Adm for the Oxygen Ind) are responsible for development and production of new technological processes and equipment. Urges greater cooperation between above-mentioned institutions and various factories for period during which new technological matters are being planned in	
USSR/Engineering (Contd)	Jul 49
order to have factory approval before placing these technologies in general use. Technologies developed by laboratories and research institutes have frequently been worthless after their adoption by industry.	
53/49T49	53/49T49

[illegible]

BEGUN, S.V.

"Some observations on new welding equipment."
Avtožen. Delo, no. 2, 1949.

BEGUN, S. V.

Kislородnaia rezka metallov; iz opyta uralskikh zavodov. Moskva, Mashgis, 1949
151 p. illus. Biblio p. 149

Oxygen cutting of metals; practice of Ural plants.

DLC: TS 227. B. 37

SO: Manufacturing and mechanical engineering in the Soviet Union, Library of
Congress, 1953.

USSR/Engineering - Welding
Cutting

Dec 49

"Cutting Several Sheets Simultaneously With Low-
Pressure Oxygen," S. V. Begun, Engr, 2½ pp

"Avtogen Delo" No 12, p. 15-30.

"Packet" cutting, i.e., simultaneous cutting of
several sheets clamped together, is one of the
most productive types of oxygen cutting. Details
procedure, with table of necessary data, three dia-
grams, and five photographs.

151T28

USER/Engineering - Cutting, Oxygen
Cutting Torches

May 50

"Cutting of Steel With Oxygen Under Low Pressure,"
S. V. Begun, Engr, 3 pp

"Argon DeLo" No 5 Vol. 21, p. 16-19

Discusses nature of cutting under low pressure.
Describes procedure, equipment and supply system.
States advantages of method: increasing efficiency
of cutting and, as result, decreasing consumption
of oxygen and fuel; possibility of cutting medium
and large thicknesses directly from gas pipes of
oxygen station, which eliminates use of gas tanks
and decreases expenses; possibility of cutting small
and medium thicknesses at pipe-line pressure of 0.5-
1.5 at.

160124

BEGUN, S. V.

1ST AND 2ND SERIES		PROCESSES AND PROPERTIES INDEX	
A 218-41. Oxygen and Arc Cutting of Scrap Metal (Intended for the Openhearth Furnace) (in Russian.) K. V. Bogus. Avtopennoe Dolo (Welding), V. St. Mar. 1960, p. 25-34. Optimum methods of cutting up different types of scrap metal for the openhearth charge were studied, comparing oxygen and electric-arc cutting. (USA, ST)			
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION			
1960-1969		1970-1979	
1980-1989		1990-1999	

BTR

3925* Oxygen Cutting of Steel by a Two-Flame Kerosene
Torch. (In Russian.) S. V. Begun. *Atmosfera Dela*, v. 22, May
1931, p. 21.
The apparatus for the above is described and illustrated.

Met. Rev.
1952

Working

44-G. Discussion of Cutting With
Low Pressure Oxygen. (In Russian.)
S. V. Bogdan and S. G. Gusev. *Auto-
science Dete*, v. 22, Apr. 1961, p. 28-29.
Above authors discuss separately
two papers appearing in *Autogenesis*
Dete, v. 21, May and June, 1960. See
Items 281-G and 261-G, 1960.
(GSR, ST)

BEGUN, Z.A., Cand Bio Sci--(diss) "Effect of ^{the} elimination of ~~the~~
three distant ^{upon} ~~analyzers~~ ^{on} the secretory function of the stomach."
Minsk, 1958. 15 pp (Acad Sci BSSR. Inst of Biology), 150 copies
(KL,45-58, 144)

-45-

EXCERPTA MEDICA Sec.2 Vol.11/4 Physio-biochem-pharm Apr58
Begun, Z.A.

1620. EFFECT OF SURGICAL ELIMINATION OF THE OPTIC, ACOUSTIC AND OLFACTORY ANALYSORS ON THE GASTRIC SECRETION IN DOGS (Russian text) - Begun Z. A. Minsk - TRUD. INST. FIZIOL. BELORUSSK. AKAD. NAUK 1956, 1 (214-221) Tables 1 Illus. 3

Firstly the basic levels of gastric secretion and of gastric juice acidity after feeding 200 g. of meat were established in dogs. Then peripheral ends of the optic, acoustic and olfactory analysors were consecutively eliminated. After this operation the secretion gradually decreased (at the end of the 3rd month by about 67%). Gastric juice acidity increased progressively in some dogs and decreased in others. The latent period became longer. It was thus clearly demonstrated that the activity of the internal organs is dependent upon the functional state of the cerebral cortex.

Semenova - Moscow (S)

References 11.

KOTEL'NIKOV, A.A. [Katsel'nikau, A.A.]; BEGUN, Z.A. [Blahun, Z.A.];
MALYUKOVICH, G.F. [Maliukovich, H.F.]

Roentgenokymographic characteristics of the contractile ability
of the heart muscle in experimental myocardial infarct. Vestsi
AN BCSR. Ser. biial. nav. no.4:80-84 '63. (MIRA 17:8)

ACC NR: AP7006273

SOURCE CODE: UR/0310/67/000/001/0027/0028

AUTHOR: Begunkov, A.; Arendarchuk, G.

ORG: TsTKB

TITLE: A universal system of industrial pneumatic components

SOURCE: Rechnoy transport, no. 1, 1967, 27-28

TOPIC TAGS: pneumatic control, pneumatic device, *industrial automatic control, automatic control equipment, ship component*

ABSTRACT: The Institute of Automation and Telemechanics of the USSR Academy of Sciences in cooperation with the Moscow "Tizpribor" plant has developed a universal system of pneumatic components to be used in industrial process-control equipment. The system comprises pneumatic amplifiers, capacitances, resistances, relays and other analogs of electric and electronic components. All of the pneumatic components perform simple functions, and are lightweight and small in size. They are mounted on special switching plates made of plastic material. At present the Ust¹-Kaurengarsk Plant produces serially 40 different types of pneumatic components for use in automatic control systems of river-going vessels. The power supply is air compressed to 1.4 kg/cm². The range of signals received by the pneumatic components is from

Card 1/2

UDC: 658.512-525

ACC NR: AP7006273

0.2—1 kg/cm²; the range of discrete signals is 0—1.4 kg/cm². Automatic control equipment made of these components is fireproof and explosion proof, and can be operated at temperatures ranging from +5 to 50°C with 95% humidity. Orig. art. has: 4 figures. [JR]

SUB CODE: 13/ SUBM DATE: none

Cord 2/2

BEGUNKOV, A.I., inzh.; BOGOMOLOV, D.B., inzh.

Pneumatomechanical remote control of "Shkoda" main engines used
on ships. Rech.transp. 18 no.6:32-33 Je '59.(MIRA 12:9)
(Marine engines)
(Remote control)

BEGUNKOVA, A. F.

A Flat Bicalorimeter for Determining the Coefficient of Heat Transfer of Insulating Materials

The equation of the heat transfer of the cooling system, consisting of a flat core-insulator, jacketed into one or more layers of the tested material, is derived. (RZhFiz, No. 8, 1955) Sb. Rabot Leninger. in-ta Tochnoy Mekhan. i Optiki, No. 12, 1954, 13-21.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

BEGUNKOVA, A.F.

Category : USSR/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3495

Author : Begunkova, A.F.

Title : Errors in the Method of the Flat Bi-Calorimeter for Regular Operation

Orig Pub : Issledovaniya v obl. teplovykh izmereniy. M.-L., Mashgiz, 1956,
32-39

Abstract : No abstract

Card : 1/1

SOV/137-57-11-22591

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 280 (USSR)

AUTHOR: Begunkova, A. F.

TITLE: Determination of the Heat Capacity of Metals in a Spherical Block Calorimeter. New Method for the Determination of the Heat Capacity of Metals (Opredeleniye teployemkosti metallov v sharovom blok-kalorimetre. Novyy metod opredeleniya teployemkosti metallov)

PERIODICAL: V sb.: Issledovaniya v obl. teplovykh izmereniy i priborov. Leningrad, 1957, pp 111-121

ABSTRACT: Description of a method for the determination of the specific heat of metals in a spherical blending-block calorimeter (BC). The spherical BC 900 mm in diam is made of Al and equipped with a special shield which protects it from accidental air currents and from the radiation of the furnace (F). The small pipe F with an electric heating unit permits one to obtain a maximum temperature of 800 - 900°C in the inner duct. The upper part of the F contains a chromel-alumel thermocouple the junction of which can be introduced into the special cavity of the specimen (S). F, shield, and BC have glossy, smooth

Card 1/3